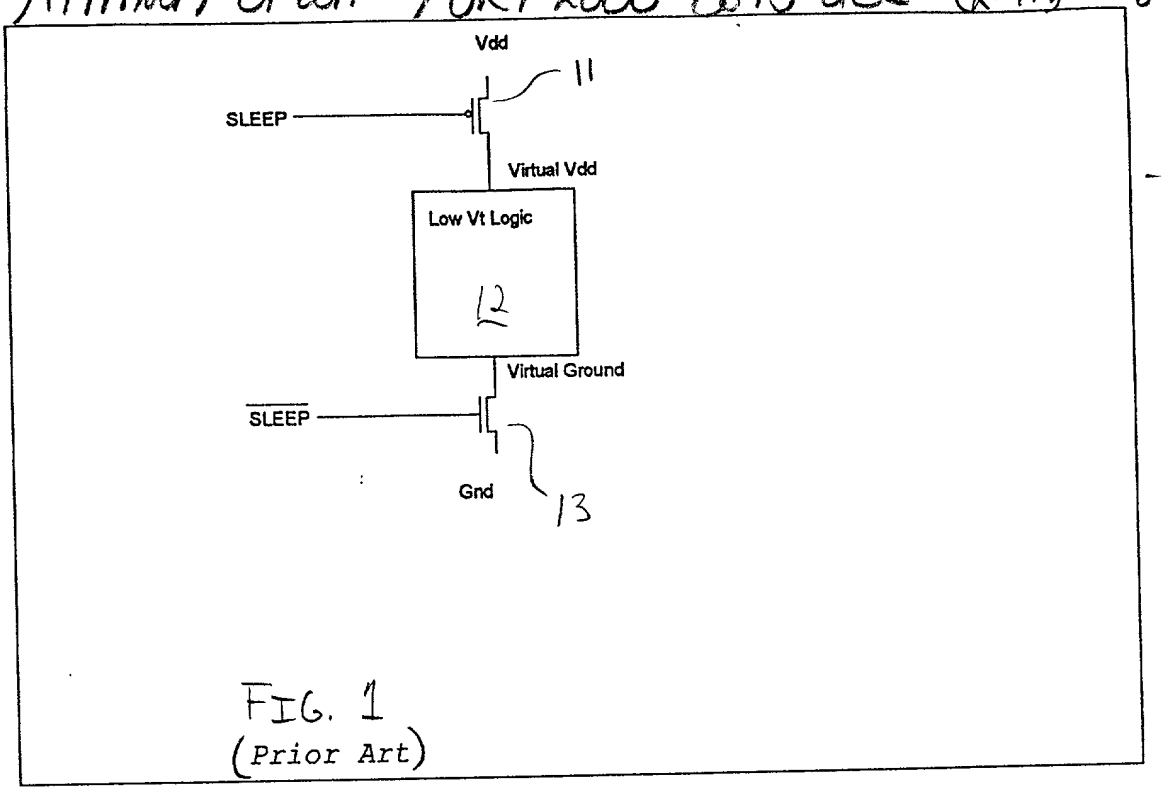


FIG. 1
(Prior Art)

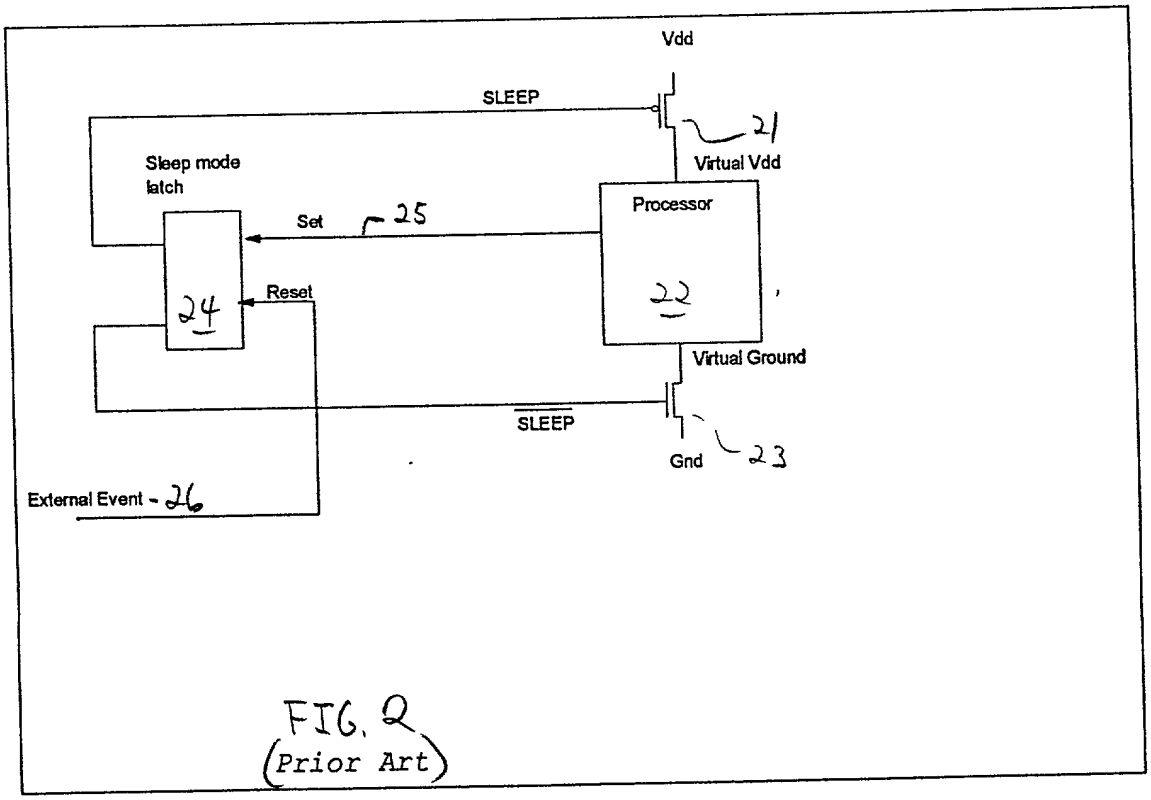


FIG. 2
(Prior Art)

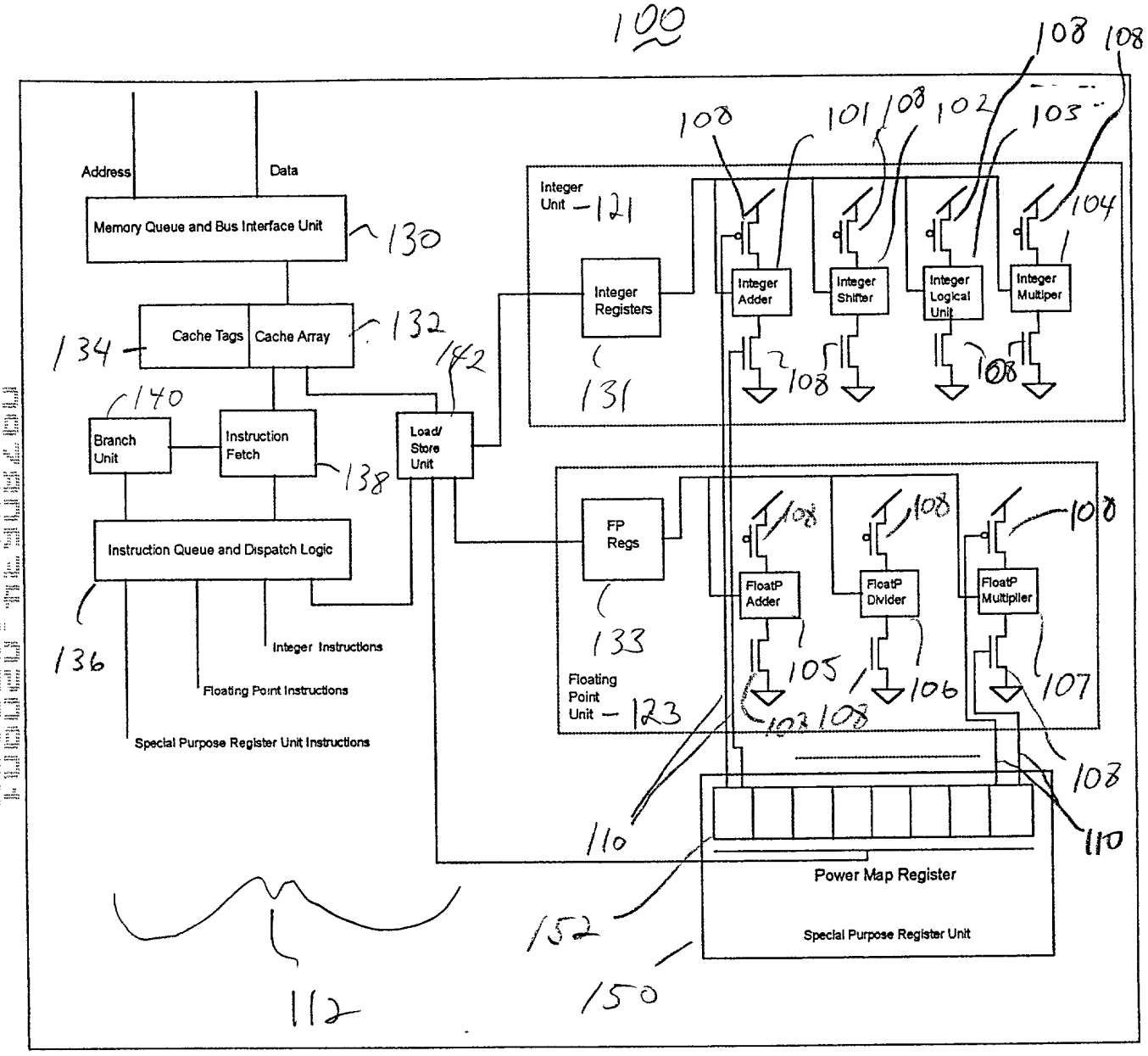
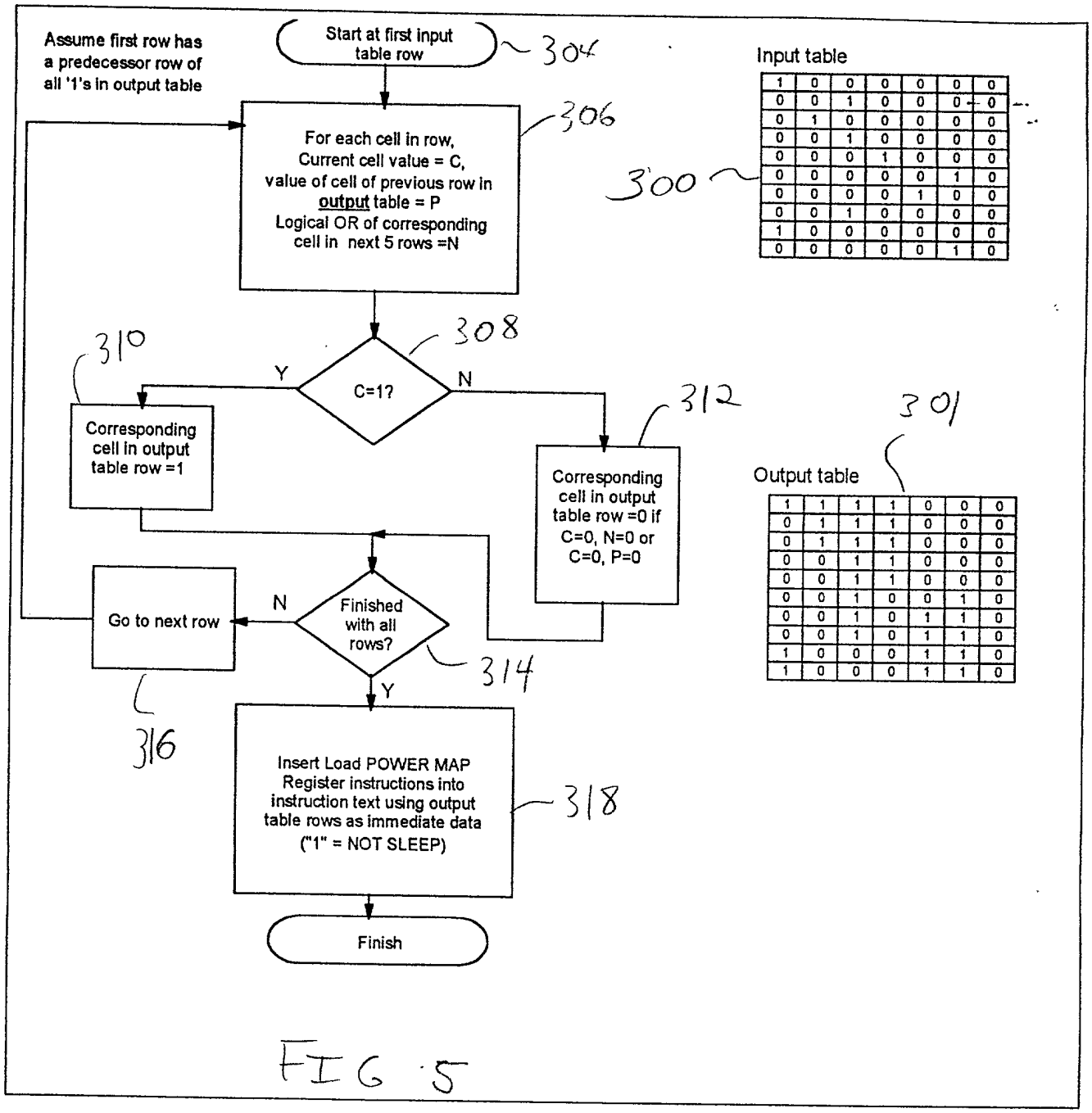

100
Address
Data
Memory Queue and Bus Interface Unit
130
Cache Tags
Cache Array
132
134
142
140
Branch Unit
Instruction Fetch
138
Load/ Store Unit
Instruction Queue and Dispatch Logic
136
Integer Instructions
Floating Point Instructions
Special Purpose Register Unit Instructions
Integer Unit
121
Integer Registers
131
Integer Adder
Integer Shifter
Integer Logical Unit
Integer Multiper
104
FP Regs
133
Floating Point Unit
123
FloatP Adder
FloatP Divider
FloatP Multiplier
105
106
107
108
101
102
103
110
Power Map Register
Special Purpose Register Unit
152
150
112

FIG. 3



1	0	0	0	0	0	0
0	0	1	0	0	0	0
0	1	0	0	0	0	0
0	0	1	0	0	0	0
0	0	0	1	0	0	0
0	0	0	0	0	1	0
0	0	0	0	1	0	0
0	0	1	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	1	0

1	1	1	1	0	0	0
0	1	1	1	0	0	0
0	1	1	1	0	0	0
0	0	1	1	0	0	0
0	0	1	1	0	0	0
0	0	1	0	0	1	0
0	0	1	0	1	1	0
0	0	1	0	1	1	0
1	0	0	0	1	1	0
1	0	0	0	1	1	0

FIG 5

8,088,268 Patented Jan. 3, 2012

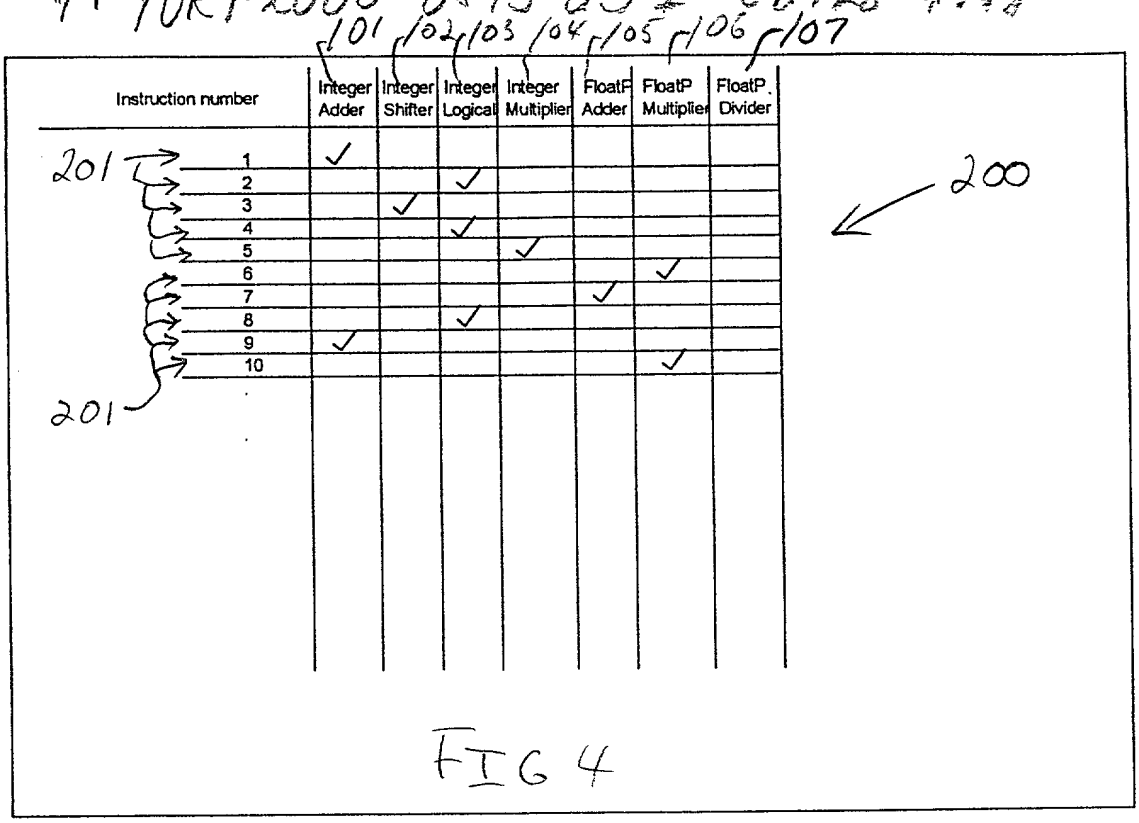


FIG 4

Instruction Sequence

LoadPowerMap 1111000
1
LPM 0111000
2
3
LPM 0011000
4
5
LPM 0010110
6
7
8
LPM 1000110
9
10
.
.
.
.

FIG. 6

EXPRESS MAIL NO. EL 990 930 390 US